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09/447,500	11/23/1999	ROBERT DAVID GRAHAM	003845.P0001	3902

7590 04/01/2004	EXAMINER	
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DATE MAILED: 04/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/447,500	GRAHAM, ROBERT DAVID
	Examiner	Art Unit
	Michael R Vaughan	2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _11 February 2004_.

2a)☒ This action is **FINAL.**   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-40_ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☐ Claim(s) _____ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _23 November 1999_ is/are: a)☐ accepted or b)☒ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _10_.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____ .

Detailed Action

Claims 1-40 have been examined and are pending.

Drawings

New corrected drawings are required in this application because the proposed drawing corrections comply with CFR 1.84. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

Rejection of claim 15 has been overcome by amendment.

Claim Objections

Objection of claim 40 has been overcome by amendment.

Response to Arguments

Applicant's arguments filed 1-30-2004 with respect to analogous art on pages 11-15 have been fully considered but they are not persuasive. Applicant has stated on page 11 that according to MPEP 2142.01(a) that "the examiner must determine what is 'analogous prior art' for the purpose of analyzing the obviousness of the subject matter at issue". Examiner notes that this is true for determining analogous for 35 USC 103 rejections. Applicant states that the Johnson reference is not analogous art for independent claim 1. Claim 1 was rejected under 35 USC 102. The analogous art test recited by the MPEP 2141.01(a) is a precaution to the examiner stating that only analogous art can be combined to meet the limitations of a claim for a proper 35 USC 103 rejection. Furthermore, two or more prior art references which are nonanalogous cannot be combined because one or ordinary skill in the art would not likely consider teachings from another art. Thus the analogous art argument of the Applicant on page 11-15 is moot in view of a 35 USC 102 rejection. Even so, the Examiner would still like to point out that the teachings of Johnson are in fact analogous to the claimed invention. Applicant has stated on page 13 that *"[t]he Johnson reference can be properly characterized as a security system for a circuit switched network while the Applicant's technology can be properly characterized as a security system for a packet switched network. One of ordinary skill in the art would not refer to a security system of a circuit switched network to address problems or issues with a packet switched network".*

Examiner respectfully disagrees with this statement. Conventional desktop computers

or servers are both used on circuit switched and packet switched networks. It is

incorrect to say that a circuit switched network such as ATM in nonanalogous to a

packet switched network such as Ethernet. Even though the underlying protocols may

be different they are both ways to network computers and other electronic devices of all

types.

Applicant's amendments filed 2-11-2004 with respect to amending the claims to

include the word "computer" appended to network and node on pages 11-15 have been

fully considered but they are not persuasive to overcome the previously cited prior art.

Courts have held that the word "computer" is any device that computes data. The court

has said that the Applicant must define in the specification what exactly is intended as a

computer when it is used in a claim. This removes all ambiguousness in the claim's

limitation. See cases In re Zletz, 893 F.2d 319, 321, 13 USPQ2d 1320, 1322 (Fed. Cir.

1989) and In re Morris, 127 F.3d 1048, 1054-55, 44 USPQ2d 1023, 1027-28 (Fed. Cir.

1997). In In re Zletz the court determined the claims must be interpreted as broadly as

their terms reasonably allow. The word computer as define by the Microsoft Computer

Dictionary 5th Edition is "any device capable of processing information to produce a

desired result. No matter how large or small they are, computers typically perform their

work in three well-defined steps: (1) accepting input, (2) processing the input according

to predefined rules (programs), and (3) producing output." In In re Paulsen (CA FC) 31

USPQ2d 1671, the court determined that the "*[t]erm "computer" lacks any standard*

definition but is commonly understood by those skilled in art to encompass, at most

fundamental level, device that is capable of carrying out calculations, and thus prior art

reference which discloses calculator meets all limitations of claims for portable

computer, in view of lack, in patent specification, of any specialized definition that

would restrict claimed invention to computer having specific set of characteristics and

capabilities; claims were thus properly rejected as being anticipated by prior art

reference". By using the same reasoning, the Examiner maintains that Johnson's digital

cell phone on a network meets the limitations of a computer on a computer network.

Johnson even discloses that a digital computer is a part of the network (see abstract)

and thus the digital computer can interpret the data of the digital cell phone. The

Examiner found that in the specification the Applicant defined workstations as

computers comprising a processor and a memory, and software using machine-

readable-media and includes a network interface (page 11, lines 7-16). Examiner

points out that this is how a workstation is defined in the specification. Workstations is

not what is claimed. Although the claims are interpreted in light of the specification,

limitations from the specification are not read into the claims. See *In re Van Geuns*, 988

F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant's arguments with respect to claims 1-25, 32-40, which have been

amended to include the limitation "analyzing computer data transmissions to determine

what type of data is contained in the computer data transmission" have been considered

but are moot in view of the new ground(s) of rejection. In response to Applicant's

argument that Hershey et al does not teach the same limitation, again the Examiner

points out that although the claims are interpreted in light of the specification, limitations

from the specification are not read into the claims. See *In re Van Geuns*, 988

F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Claim Rejections - 35 USC § 102

Claims 26-28 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by

Johnson et al (USP 5,345,595).

As per claim 26, Johnson et al teach:

storing a plurality of suspect-specific alert variables for a plurality of computer

network nodes (column 6, lines 61-65);

modifying a network alert variable based on the value of each of said plurality of

suspect-specific alert variables (column 9 and column 10, lines 3-44);

triggering a network response when said network alert variable reaches a

predetermined threshold level (column 4, lines 16-26).

As per claim 27, Johnson et al teach notifying each of the plurality of network

nodes (system operators) that they should each increase their suspect-specific alert

variable (alert-state) towards a particular suspect computer node.

As per claim 28, Johnson et al teach a computer network server node initiating a

passive scan of a particular suspect node (column 24, lines 30- 40). The suspect

computer node is monitored (passively) for a window of time.

As per claim 31, Johnson et al teach:

storing a plurality of overall alert variables for a plurality of computer network

nodes (column 9, lines 29-43 and column 21, lines 27-50);

modifying a network alert variable based on the value of each of said plurality of

overall alert variables (column 9 and column 10, lines 3-44);

triggering a network response when said network alert variable reaches a

predetermined threshold level (column 4, lines 24-26 and FIG. 4C block S540).

Claim Rejections - 35 USC § 103

Claims 1-7,10-14,16-25, 29-30, 32-37, and 39-40 are rejected under 35 U.S.C.

103(a) as being unpatentable over Johnson et al in view of Hershey et al (USP

5,414,833).

As per claim 1, Johnson et al teach:

modifying an alert variable based on data transmissions originating from one or

more suspects nodes (column 3, lines 5-25);

triggering a first response when said alert variable reaches a first predetermined
threshold level (column 3, lines 14-25);

triggering a second response when said alert variable reaches a second
predetermined threshold level (column 3, lines 25-40).

Johnson fails to explicitly teach analyzing computer data transmissions to
determine what type of data is contained in the computer data transmission. Hershey et
al teaches analyzing computer data transmissions to determine what type of data is
contained in the computer data transmission (column 6, lines 40-50). Hershey et al
teaches a system in which data is monitored and analyzed in real time to thwart security
threats in real-time. The data is analyzed to determine if it possesses harmful types of
data. The benefit of this procedure is to respond as quickly as possible to a threat to
minimize and localize its ability to inflict damage to the system. It would be
advantageous to apply this same real-time advanced threat detection method to the
system of Johnson. Johnson's defensive procedures are not in real time and can only
help prevent future security problems. Having a real-time response could help block out
intruders quicker thus saving a lot of cost and effort of recovering from security
breeches. In view of this it would have been obvious to one of ordinary skill in the art at
the time of the invention to employ the teachings of Hershey with the system of Johnson
because it would help alleviate threats by examining the data in real time as apposed to
only reviewing records.

As per claim 2, Johnson et al teach triggering additional responses when said alert variable reaches one or more additional threshold levels (column 6, line 61 – column 7, line 20).

As per claim 3, Johnson et al teach passive scanning (looking) of one or more of said suspect nodes (column 3, lines 57-61).

As per claim 4, Johnson et al teach passively scanning a node. Johnson et al are silent in disclosing the step of recording data transmissions in a log file (column 2, lines 41-42). Hershey et al teach a conventional method of storing data in a log file. In view of this it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the teaching of Hershey et al within the system of Johnson because it would allow the passively scan data to be recorded to a log file where it could be later analyzed.

As per claim 5, Johnson et al are silent in disclosing the triggered responses that include an active scan of suspected nodes. Hershey et al teach actively scanning suspected nodes (column 9, lines 24-26). Hershey et al teach that an adaptive active responding means provide the functionality necessary to implement a security agent in a high-speed communication environment (column 9, lines 34-38). In view of this it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the teaching of Hershey et al within the system of Johnson et al because it

would allow the system to have greater control and responsiveness to a node

suspected of misconduct.

As per claim 6 and 7, Johnson et al are silent in disclosing an active scan which

includes the step of retrieving information about one or more suspect nodes including

the network address of said suspect nodes. Hershey et al teach a security agent which

can gather information such as viral detection (column 7, 3-6), inappropriate use

(column 7, lines 7-15), and detect logins (column 7, lines 16-19) about a suspected

node. The security agent monitors the bits on the network and can detect protocol

information (column 9, lines 40-50). If a security agent knows the protocol information a

node in the network, it then knows the network address of all nodes and the route in

which the suspected node's data travels. In view of this it would have been obvious to

one of ordinary skill in the art at the time of the invention to employ the teaching of

Hershey et al within the system of Johnson because it would allow the security system

to retrieve information about a suspected node and know where it is transmitting.

As per claim 10, Johnson et al are silent in disclosing the step of blocking

incoming data transmissions. Hershey et al discloses that a device could delete

information in the bit stream. Deleting the bit stream in synonymous to blocking the bits

from reaching their destination. The ability to block the bits from reaching their

destination is an important active security feature. In view of this it would have been

obvious to one of ordinary skill in the art at the time of the invention to employ the

teaching of Hershey et al within the system of Johnson because it would allow the system to have active control over the transmitting of data within the network.

As per claim 11, Johnson et al are silent in disclosing that an alert variable responds differently over time to a particular type of data transmission. Hershey et al disclose that bit pattern detection can be actively changed to recognize new bit pattern on the network (column 11, line 60 – column 12, line 12). This means that over time, when new viruses for instance are discovered, the system can be adapted to detect the new bit patterns. In view of this it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the teaching of Hershey et al within the system of Johnson because it would allow the system to be adaptable so that it can detect bit patterns which are found in the future to be dangerous to the network (worms).

As per claim 12, Johnson et al teach that the numbers of calls (data transmission) are counted until a threshold is reached (column 3, lines 14-25).

As per claim 13, Johnson et al are silent in disclosing that a particular type of data transmission originating from a said suspect node is an invalid login attempt. Hershey et al teach that invalid login attempts are monitored to provide the network security from intruders who are trying to guess login combinations (column 22, lines 36-61). In view of this it would have been obvious to one of ordinary skill in the art at the

time of the invention to employ the teaching of Hershey et al within the system of

Johnson because it would allow the system to prevent authorized users from gaining

access to the system by trying to match login names with passwords.

As per claim 14, Johnson et al teach that a moving average adapts to the user's

data transmission patterns (column 9 – column 10). Johnson et al teach that a decision

to create an alert is made by comparing some event to a threshold level (column 9, lines

5-14). Averaging events over a time period smoothes out a user's data and thereby

create a trend (column 10, lines 9-10). At first the data would be erratic and send

frequent alerts but as the trend is defined the system becomes less sensitive (higher

threshold) to a day with more than usual data transmission. Therefore it is inherent that

Johnson et al teaches a system whereby at first, changes in a user's trend create alerts

but if they are continued the system adapts to the new level of use and does not report

false alerts.

As per claims 16 and 17, Johnson et al are silent in disclosing filtering data on

the packet level. Hershey et al teach a security system that can be implement on the

TCP/IP level of the network stack (column 31, line 61- column 33, line 10). Hershey et

al teach network protocol information is decipherable at the IP level the important. It is

therefore inherent that from the teaching of Hershey et al, the system can be

implemented on the IP level to analyze and filter data packets. Hershey teaches the

gathering of network information from protocol data (column 9, lines 40-50). In view of

this it would have been obvious to one of ordinary skill in the art at the time of the

invention to employ the teaching of Hershey et al within the system of Johnson because

it would allow the system to analyze and filter data at the packet level where network

protocol overhead can be easily discerned and used to expedite security actions.

As per claim 18, Johnson et al teach:

modifying a first suspect-specific alert variable (each call pattern event) based on

data transmissions originating from a first suspect node (column 9 and column 10, lines

3-44);

modifying a second suspect-specific alert variable (each call pattern event)

based on data transmissions originating from a second suspect node (column 9 and

column 10, lines 3-44);

triggering a suspect-specific response when either of said suspect-specific alert

variables reach a predetermined threshold level (column 4, lines 16-26).

Johnson fails to explicitly teach analyzing computer data transmissions to

determine what type of data is contained in the computer data transmission. Hershey et

al teaches analyzing computer data transmissions to determine what type of data is

contained in the computer data transmission (column 6, lines 40-50). Hershey et al

teaches a system in which data is monitored and analyzed in real time to thwart security

threats in real-time. The data is analyzed to determine is it possesses harmful types of

data. The benefit of this procedure is to respond as quickly as possible to a threat to

minimize and localize its ability to inflict damage to the system. It would be

advantageous to apply this same real-time advanced threat detection method to the system of Johnson. Johnson's defensive procedures are not in real time and can only help prevent future security problems. Having a faster response could help block out intruders faster thus saving a lot of cost and effort of recovering from security breeches. In view of this it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the teachings of Hershey with the system of Johnson because it would help alleviate threats by examining the data in real time as apposed to only reviewing records.

As per claim 19, Johnson et al teach triggering additional suspect-specific responses when either of said suspect-specific alert variables reaches additional predetermined threshold values (column 6, line 61 – column 7, line 20).

As per claim 20, Johnson et al teach modifying an overall alert variable based on said data transmissions originating from each suspect node (column 9 and column 10, lines 3-44).

As per claim 21, Johnson et al teach triggering a response towards each one of said plurality of suspect nodes when said overall alert variable reaches a predetermined threshold value (column 6, line 61 – column 7, line 20).

As per claim 22, Johnson et al teach the alert variable is more responsive to new types of data transmissions than to data transmissions previously received at said network node (column 6, line 61 – column 7, line 20).

As per claim 23, Johnson et al teach that a moving average adapts to the user's data transmission patterns (column 9 – column 10). Johnson et al teach that a decision to create an alert is made by comparing some event to a threshold level (column 9, lines 5-14). Averaging events over a time period smoothes out a user's data and thereby create a trend (column 10, lines 9-10). At first the data would be erratic and send frequent alerts but as the trend is defined the system becomes less sensitive (higher threshold) to a day with more than usual data transmission. Therefore it is inherent that Johnson et al teaches a system whereby at first, changes in a user's trend create alerts but if they are continued the system adapts to the new level of use and does not report false alerts.

As per claim 24, Johnson et al teach communicating each of said suspect-specific alert variables to a network database residing on a server node (column 6, lines 61-65).

As per claim 25, Johnson et al teach communicating said overall alert variable to a network database residing on a server node (column 6, line 61 – column 7, line 20).

As per claim 29, Johnson et al are silent in disclosing the triggered responses that include an active scan of suspected nodes. Hershey et al teach actively scanning suspected nodes (column 9, lines 24-26). Hershey et al teach that an adaptive active responding means provide the functionality necessary to implement a security agent in a high-speed communication environment (column 9, lines 34-38). In view of this it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the teaching of Hershey et al within the system of Johnson because it would allow the system to have greater control and responsiveness to a node suspected of misconduct.

As per claim 30, Johnson et al are silent in disclosing the step of blocking incoming data transmissions. Hershey et al discloses that a device could delete information in the bit stream. Deleting the bit stream in synonymous to blocking the bits from reaching their destination. The ability to block the bits from reaching their destination is an important active security feature. In view of this it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the teaching of Hershey et al within the system of Johnson because it would allow the system to have active control over the transmitting of data within the network.

As per claim 32, Johnson et al teach:

receiving a first event from a suspect node (column 3, lines 14-25);

recording said first event in a first data structure having an event count value (column 6, lines 61-65 and column 9, lines 11-18);

receiving a second event from said suspect node, said second event (new event) being of a same type as said first event (column 6, line 61 – column 7, line 20);

recording said second event in said first data structure(column 6, lines 61 – column 7, line 5) and incrementing a said count value (call events are counted and numbered (column 16, lines 62-64)) if said second event occurs within a predetermined window of time after said first event (column 22, 1-20). Johnson et al teach that the window of time is different depending on the event. The data of the database event is compared to the call date.

Johnson fails to explicitly teach analyzing computer data transmissions to determine what type of data is contained in the computer data transmission. Hershey et al teaches analyzing computer data transmissions to determine what type of data is contained in the computer data transmission (column 6, lines 40-50). Hershey et al teaches a system in which data is monitored and analyzed in real time to thwart security threats in real-time. The data is analyzed to determine is it possesses harmful types of data. The benefit of this procedure is to respond as quickly as possible to a threat to minimize and localize its ability to inflict damage to the system. It would be advantageous to apply this same real-time advanced threat detection method to the system of Johnson. Johnson's defensive procedures are not in real time and can only help prevent future security problems. Having a faster response could help block out intruders faster thus saving a lot of cost and effort of recovering from security breeches.

In view of this it would have been obvious to one of ordinary skill in the art at the time of

the invention to employ the teachings of Hershey with the system of Johnson because it

would help alleviate threats by examining the data in real time as apposed to only

reviewing records.

As per claim 33, Johnson et al teach that alerts are recorded in a data structure

(column 6, lines 61-63). Johnson et al teach that from the records of events, the data

(CCF record) is used to adjust the moving average of use to form a pattern (column 10,

lines 3-15). The data is used to formulate the user trend whether it falls within the

window of time or not. If only the data from inside the window of time was used to

formulate the average, the result would not depict an accurate picture of a user's trend.

The data outside the window of time must also be incorporated to calculate an accurate

average of network use. Therefore it is inherent that the teachings of Johnson et al

suggest events that occur outside the window of time (those that do not cause an

immediate alert) are also recorded and used to generate an average.

As per claim 34, Johnson et al teach that a moving average adapts to the user's

data transmission patterns (column 9 – column 10). Johnson et al teach that a decision

to create an alert is made by comparing some event to a threshold level (column 9, lines

5-14). Averaging events over a time period smoothes out a user's data and thereby

create a trend (column 10, lines 9-10). Thus the window of time is changed with events

that occur. For example the window of time would gradually increase if the user started

making more calls each day (increased data). At first the data would be erratic and

send frequent alerts but as the trend is defined the system becomes less sensitive

(higher threshold) to a day with more than usual data transmission. Therefore it is

inherent that Johnson et al teaches a system whereby at first, changes in a user's trend

create alerts but if they are continued the system adapts by adjusting the window of

time so that the system does not report false alerts.

As per claims 35 and 36, Johnson et al teach the event type influences the

predetermined window of time (column 21, line 27 – column 22, line 22). A

simultaneous call event would have a window time of the duration of the call. However,

a "Double Duration" event (column 24, lines 8-36) has a window time of four to five

days. Johnson et al teach that there are two levels of alert, yellow and red (column 30

lines 2-6). The window time for a red alert such as "Double Duration" is up to five days,

which is more than the window time for a yellow alert.

As per claim 37, Johnson et al are silent in disclosing that a particular type of

data transmission originating from a said suspect node is an invalid login attempt.

Hershey et al teach that invalid login attempts are monitored to provide the network

security from intruders who are guessing to guess login combinations (column 22, lines

36-61). In view of this it would have been obvious to one of ordinary skill in the art at

the time of the invention to employ the teaching of Hershey et al within the system of

Johnson because it would allow the system to prevent authorized users from gaining access to the system by trying to match login names with passwords.

As per claim 39, Johnson et al teach generating a report of all new events, which occur over a predetermined time period (column 6, lines 61 – column 7, line 16 and column 21, lines 26-50).

As per claim 40, Johnson et al teach:

determining whether said event is included in a single data structure with one or more previous events received in a time period preceding said predetermined time period (column 6, lines 61-68 and column 21, lines 12-19);

searching all data structures generated during said time period preceding said predetermined time period if said event is not included in said single data structure with one or more previous event (column 6, lines 61 – column 7, line 16).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson et al in view of Watson et al (USP 5,475,839).

As per claim 8, Johnson teaches responding to triggered network events (column 3, lines 14-25). Johnson et al are silent in disclosing that in authentication if increased in order to gain access to the network resources. Watson et al teach that once an invalid login is detected that the user has a certain number of chances to login correctly before the system is shut down (column 14, lines 11-33). Watson et al also teach that

the computer will shut itself down each time a login fails. The user must then login

successfully on the first try in order to return the computer back its default state.

Therefore the authentication is increased once a suspicious event has been detected.

In view of this it would have been obvious to one of ordinary skill in the art at the time of

the invention to employ the teaching of Watson et al within the system of Johnson et al

because it would allow the system to respond to security threats by enforcing and

passing a stronger authentication process in order to gain access to the network

resources.

Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson

et al in view of "Packages in the net directory" (note that this reference will be referred to

as Packages hereafter).

As per claim 38, Johnson et al are silent in disclosing a ping event type.

Packages teach a tool known as tcpdump, which can be used to detect ping attacks and

monitor the network (pg. 14). Ping attacks are a network problem, as Packages teach,

because they can slow-down the system or a target node by flooding it with packets. In

view of this it would have been obvious to one of ordinary skill in the art at the time of

the invention to employ the teaching of Packages within the system of Johnson et al

because it would allow the system to recognize ping packets and determine if they are a

threat to the system.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson et al and Watson et al as applied to claims 1 and 8 above, and further in view of CamNet (Using the CamNet BBS FAQ).

As per claim 9, the combined teachings of Johnson et al and Watson et al teach increasing the authentication of the system when an invalid login occurs. The combined teachings of Johnson et al and Watson et al fail to teach requiring the user to login twice in order to gain access to the network resources. Having a login twice increases the security and decreases the chance of an authorized user from gaining access to the network. CamNet teaches requiring a user to login twice in order to gain full access to the system (pg. 1). In view of this it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the teaching of CamNet within the combined system of Johnson et al and Watson et al because it would require a user to login twice in order to gain access to the network resources.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson et al and Hershey et al as applied to claims 1, 11, and 14 above, and further in view of NASIRE (NASA Automated Systems Incident Response Capability).

As per claim 15, the combined teachings of Hershey et al and Watson et al fail to teach a particular type of data transmission originating from said suspect node is a transmission that retrieves information about said network. NASIRE teaches that sniffer

programs compromise a network by subjecting itself to all data (information) on the

network (pg. 1). By doing so it can obtain any information being sent on the network.

NASIRE teaches that these program need to be detected so that they can be shut

down. In view of this it would have been obvious to one of ordinary skill in the art at the

time of the invention to employ the teaching of NASIRE within the combined system of

Johnson et al and Hershey et al because it would increase the overall security of the

network by detecting nodes which are using programs or techniques that compromise

the resources of the network by gaining unauthorized information.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael R Vaughan whose telephone number is 703-305-0354. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MV
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Examiner
Art Unit 2131

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